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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,322 10/14/2003		Mark Hirst	200309706-1	5015	
22879 7	590 03/30/2005	EXAM	EXAMINER		
HEWLETT P	ACKARD COMPAN	EICKHOLT,	EICKHOLT, EUGENE H		
	100, 3404 E. HARMON	ART UNIT	PAPER NUMBER		
INTELLECTUAL PROPERTY ADMINISTRATION			ARTOMI	TATER NOMBER	
FORT COLLIN	NS, CO 80527-2400	2854			

DATE MAILED: 03/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Α	Application No	•	Applicant(s)				
		1	10/685,322		HIRST ET AL.	(an)			
Offic	e Action Summary	E	Examiner		Art Unit				
		E	Eugene H. Eick	holt	2854	1			
The MA Period for Reply	ILING DATE of this commu	nication appear	rs on the cove	er sheet with the c	orrespondence addre	ess `			
THE MAILING  - Extensions of time after SIX (6) MON  - If the period for re - If NO period for re - Failure to reply with Any reply received.	D STATUTORY PERIOD F DATE OF THIS COMMUN e may be available under the provision ITHS from the mailing date of this com ply specified above is less than thirty ( ply is specified above, the maximum s thin the set or extended period for repl d by the Office later than three months in adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a munication. 30) days, a reply wit statutory period will a y will, by statute, cau	a). In no event, how thin the statutory m apply and will expire use the application	vever, may a reply be tim inimum of thirty (30) day: SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.			
Status									
1) Respons	sive to communication(s) fil	ed on .							
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3)☐ Since thi									
Disposition of Cla	aims								
4a) Of the 5) ⊠ Claim(s) 6) ⊠ Claim(s) 7) ⊠ Claim(s)	<u> </u>								
Application Pape	rs								
9)☐ The spec	ification is objected to by th	ne Examiner.							
10)☐ The draw	D) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35	U.S.C. § 119								
12) Acknowled  a) All by  1. Ce  2. Ce  3. Ce  ap	edgment is made of a claim  Come * c) None of:  Prified copies of the priority  Prified copies of the priority  Prified copies of the priority  Prified copies  Prified copies	documents he documents he of the priority onal Bureau (F	nave been rec nave been rec documents h PCT Rule 17.2	eived. eived in Applicati ave been receive 2(a)).	on No ed in this National St	age			
Attachment(s)									
1) Notice of Referen	nces Cited (PTO-892)		4) [	Interview Summary	(PTO-413)				
<ol><li>Draftsp</li></ol>	erson's Patent Drawing Review (losure Statement(s) (PTO-1449 o		5) <u> </u>	Paper No(s)/Mail Da	ate´. atent Application (PTO-19	52)			

Art Unit: 2854

Claims 7-8,10 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

No antecedent basis is present for the print element or the imaging device print element in claim 10.

Claims 45-46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 45-46 refer to claims 35-36 as method claims while in fact they are apparatus claims.

Claims 1, 6, 9, 11-12, 18-19, 21, 22, 23 and 44 are rejected under 35 U.S.C. 102(e) as being anticipated by Maeda et al.

The information processor 10 includes a display unit 16. See fig. 1 and paragraph 28. This reads on the imaging device. The cpu 20 reads on the element which generates heat. See the abstract and paragraph 33. The cooling unit 40 includes a thermoelectric conversion module 60A and a fan 44 which reads on the thermoelectric generator and the cooling device. See paragraph number 37. Paragraph 9, teaches " a current output from the first thermoelectric conversion part is input to the second thermoelectric conversion part to cool the second heat receiving part." See also paragraph 78 in this regard. Paragraph 92 teaches the cooling units 40, 41 perform both power generation and cooling.

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Regarding claims 6 and 18 see paragraph 57 teaching the Peltier effect and

paragraph 58 teaching the Seebeck effect. As current has voltage, claims 9 and 21, are

anticipated.

Fan 44 reads on the exhaust fan of claim 11 and 23. See paragraph 36. The

cooling control program is configured to reduce temperature as recited in claim 22.

Paragraph 111 reads on claim 44.

Regarding claim 10, figure 2 shows the thermoelectric conversion module 60A

thermally coupled to the CPU 20 (heat source) and "bonded" on its other side to heat

sink 42. See paragraph 35.

Claims 2-5, 13-16 and 20 are objected to as being dependent upon a rejected

base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

Claims 24-43 and 47 stand allowed.

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. If applicant intends to swear in back of Maeda et al, then such

affidavit is required with the next response or will be refused consideratio as being

untimely.

A shortened statutory, period of 3 months is set to respond.

Eickholt/ds

03/22/05

EUGENE H. EICKHOLT
PRIMARY EXAMINER

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning the specifics of this communication should be directed to Examiner Eickholt, who can be reached Tuesday through Thursday. Inquiries of a general nature should be directed to the TC2800 receptionist.

Contact numbers: Exr. Eugene H. Eickholt SPE Andrew Hirshfeld TC 2800 Fax

571-2722160 571-2722168 703-8729306

> EUGENE H. EICKHOLT PRIMARY EXAMINER